PERFORMANCE BULLETIN

Boat Manufactured By:

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Engine: *Yamaha F200XCA*

Boat: *Ranger Tugs® R-23*

Configuration: *Single*

Test Date: *14-Nov-2016*

RANGER TUGS® R-23

Length	22' 8"
Beam	8' 6"
Dry Weight (Boat Mfr. Pub)	5,000 lbs
Maximum HP	250 hp
Fuel Capacity	75 gal
Weight as Tested	6,956 lbs

F200XCA

Horsepower	200 hp
Induction	EFI
Displacement	2.8 L
Weight (Estimated)	489 lbs
Gear Ratio	1.86

ENGINE MOUNTING HEIGHT

Mounting Hole Position	#1
Ventilation Plate Height	1/2" Above Boat Bottom

PROPELLER(S)

Series	Reliance® Series
Diameter x Pitch	14 1/4 x 14
Yamaha Part #	68F-45930-10-00
Propeller Material	Polished Stainless Steel

TEST CONDITIONS

Number of People	2
Air / Water Temperature (Fahrenheit)	55° F / 60° F
Elevation (in feet above sea level)	0'
Wind Velocity	0-5 MPH

COMMENTS

Test weight includes 65 gallons of fuel, 4 batteries, 11 gallons freshwater in tank, optional Yamaha T9.9XPHB auxiliary outboard, safety and test gear.

YPB#: PB_RGT_R-23_F200XCA_2016-11-14_OWA

PERFORMANCE DATA

RPM	MPH	GPH	MPG
1000	4.2	0.7	6
1500	6	1.3	4.62
2000	7.4	2.1	3.52
2500	8.4	3.2	2.63
3000	9.5	4.8	1.98
3500	10.4	6.6	1.58
4000	12.7	8.8	1.44
4500	22	10	2.2
5000	**30.4**	**11.8**	**2.58**
5500	34.4	15.8	2.18
6050	**38.7**	**20.4**	**1.9**

**Time to Plane : 7.75
 0-30 MPH: 16.92**

NOTICE TO CONSUMER

The information and data contained in this Performance Bulletin is approximate and subject to many different factors and variables. It is provided as a guideline only and should not be relied upon as representative of actual performance. Your boat's performance may be different than the information contained in this Performance Bulletin due to various factors, including your boat's actual weight, wind and water conditions, temperature, humidity, elevation, bottom paint, boat options affecting wind/water drag and/or boat weight, and operator ability. Please confirm the specifications and performance data on your specific boat/engine combination with your dealer prior to purchase. Please also keep in mind that the data contained in this Performance Bulletin may or may not have been performed using Yamaha PowerMatched components. Yamaha reserves the right to change the specifications and performance data of this Performance Bulletin or engine without notice. This document contains many of Yamaha's valuable trademarks. It may also contain trademarks belonging to other companies. Any references to other companies or their products are for identification purposes only, and are not intended to be an endorsement.